

INTERNATIONAL SEARCH REPORT

Inter application No.

PCT/SE 2004/001549

A. CLASSIFICATION OF SUBJECT MATTER

IPC7: C12N 15/18, C12N 5/10, C07K 14/48, A61K 38/18, C12Q 1/68
According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7: C12N, C12Q, A61K, C07K, G01N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE, DK, FI, NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPO-INTERNAL, WPI-DATA, PAJ, BIOSIS, MEDLINE, CHEM. ABS DATA

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	Animal Genetics, Vol. 28, 1997, C. Elduque et al: "An EcoRI polymorphism at the beta-nerve growth factor (NGFB) locus in cattle", page 308 - page 322 --	1,10
X	Science, Vol. 240, no. 4857, 1988, Christiane Ayer-LeLievre et al: "Expression of the Beta-Nerve Growth Factor Gene in Hippocampal Neurons", page 1339 - page 1341 --	1,10
X	Am J Hum Genet, Vol. 37, 1985, J. K. Darby et al: "A Discordant Sibship Analysis between Beta-NGF and Neurofibromatosis", page 52 - page 59 --	1,10

☒ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

22 February 2005

Date of mailing of the international search report

28-02-2005

Name and mailing address of the ISA/

Swedish Patent Office

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/SE 2004/001549

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passage-	Relevant to claim No.
X	US. 2003032589 A1 (ILSE BARTKE ET AL), 13 February 2003 (13.02.2003), see claim 9 --	3
X	NeuroToxicology, Vol. 17, no. 3-4, 1996, Brian C. Rogers: "Development of Recombinant Human Nerve Growth Factor (rhNGF) as a Treatment for Peripheral Neuropathic Disease", page 865 - page 870 --	3
X	Human Gene Therapy, Vol. 13, 10 December 2002, Linglong Zou et al: "Improvement of Spatial Learning and Memory After Adenovirus-Mediated Transfer of the Nerve Growth Factor Gene to Aged Rat Brain", page 2173 - page 2184 --	3
A	WO 9849308 A1 (GENENTECH, INC.), 5 November 1998 (05.11.1998) --	1-16
A	Cell, Vol. 76, 25 March 1994, Craig Crowley et al: "Mice Lacking Nerve Growth Factor Display Perinatal Loss of Sensory and Sympathetic Neurons yet Develop Basal Forebrain Cholinergic Neurons", page 1001 - page 1011 --	1-16
A	Ann Neurol, Vol. 52, 2002, Ennio Toscano et al: "No Mutation in the TRKA (NTRK1) Gene Encoding a Receptor Tyrosine Kinase for Nerve Growth Factor in a Patient with Hereditary Sensory and Autonomic Neuropathy Type V", page 224 - page 227 -- -----	1-16

INTERNATIONAL SEARCH REPORT

International application No.
PCT/SE2004/001549

Box No. I Nucleotide and/or amino acid sequence(s) (Continuation of item I.b of the first sheet)

1. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, the international search was carried out on the basis of:

a. type of material

☒ a sequence listing

☐ table(s) related to the sequence listing

b. format of material

☒ in written format

☒ in computer readable form

c. time of filing/furnishing

☒ contained in the international application as filed

☐ filed together with the international application in computer readable form

☐ furnished subsequently to this Authority for the purposes of search

2. ☐ In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.

3. Additional comments:

INTERNATIONAL SEARCH REPORT

International application No.
PCT/SE2004/00154 9

Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.: 11 (partially) and 16
because they relate to subject matter not required to be searched by this Authority, namely:
Claims 11 (partially) and 16 relate to a method of treatment of the human or animal body by surgery or by therapy, as well
.../...
2. ☐ Claims Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☒ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims, it is covered by claims Nos.:

Remark on Protest

- ☒ The additional search fees were accompanied by the applicant's protest.
☐ No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

International application No.
PCT/SE2004/001549

Box II.1

as diagnostic methods /Rule 39.1(iv). Nevertheless, a search
has been executed for this claim.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/SE 2004/001549

US	20030032589	A1	13/02/2003	AU	7214998 A	11/11/1998
				CA	2286137 A	22/10/1998

WO	9849308	A1	05/11/1998	AU	7154698 A	24/11/1998
				CA	2286558 A	05/11/1998
				EP	0977860 A	09/02/2000
				IL	132251 D	00/00/0000
				JP	2001527402 T	25/12/2001
				US	6333310 B	25/12/2001
				ZA	9803289 A	20/10/1999
